

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/448,727DATE: 10/09/96  
TIME: 14:58:59

INPUT SET: S13124.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

ENTERED

1  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: Burnette III, Walter N  
6  
7 (ii) TITLE OF INVENTION: RECOMBINANT DNA-DERIVED BORDETELLA TOXIN  
8 SUBUNIT ANALOGS  
9  
10 (iii) NUMBER OF SEQUENCES: 27  
11  
12 (iv) CORRESPONDENCE ADDRESS:  
13 (A) ADDRESSEE: Amgen Inc  
14 (B) STREET: 1840 DeHavilland Drive  
15 (C) CITY: Thousand Oaks  
16 (D) STATE: California  
17 (E) COUNTRY: USA  
18 (F) ZIP: 91320-1789  
19  
20 (v) COMPUTER READABLE FORM:  
21 (A) MEDIUM TYPE: Floppy disk  
22 (B) COMPUTER: IBM PC compatible  
23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
24 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30  
25  
26 (vi) CURRENT APPLICATION DATA:  
27 (A) APPLICATION NUMBER:  
28 (B) FILING DATE:  
29 (C) CLASSIFICATION:  
30  
31 (viii) ATTORNEY/AGENT INFORMATION:  
32 (A) NAME: Mazza, Richard J  
33 (B) REGISTRATION NUMBER: 27,657  
34 (C) REFERENCE/DOCKET NUMBER: D-242-CIP-C-D  
35  
36  
37 (2) INFORMATION FOR SEQ ID NO:1:  
38  
39 (i) SEQUENCE CHARACTERISTICS:  
40 (A) LENGTH: 12 base pairs  
41 (B) TYPE: nucleic acid  
42 (C) STRANDEDNESS: single  
43 (D) TOPOLOGY: linear  
44  
45 (ii) MOLECULE TYPE: other nucleic acid  
46

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/448,727DATE: 10/09/96  
TIME: 14:59:01

INPUT SET: S13124.raw

47  
48  
49  
50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
51  
52 CATCGATTCT AG 12  
53  
54 (2) INFORMATION FOR SEQ ID NO:2:  
55  
56 (i) SEQUENCE CHARACTERISTICS:  
57 (A) LENGTH: 20 base pairs  
58 (B) TYPE: nucleic acid  
59 (C) STRANDEDNESS: single  
60 (D) TOPOLOGY: linear  
61  
62 (ii) MOLECULE TYPE: other nucleic acid  
63  
64  
65  
66  
67 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
68  
69 TGCAGTAGCT AAGATCTTAA 20  
70  
71 (2) INFORMATION FOR SEQ ID NO:3:  
72  
73 (i) SEQUENCE CHARACTERISTICS:  
74 (A) LENGTH: 10 base pairs  
75 (B) TYPE: nucleic acid  
76 (C) STRANDEDNESS: single  
77 (D) TOPOLOGY: linear  
78  
79 (ii) MOLECULE TYPE: other nucleic acid  
80  
81  
82  
83  
84 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
85  
86 CGATTTGATT 10  
87  
88 (2) INFORMATION FOR SEQ ID NO:4:  
89  
90 (i) SEQUENCE CHARACTERISTICS:  
91 (A) LENGTH: 12 base pairs  
92 (B) TYPE: nucleic acid  
93 (C) STRANDEDNESS: single  
94 (D) TOPOLOGY: linear  
95  
96 (ii) MOLECULE TYPE: other nucleic acid  
97  
98  
99

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/448,727DATE: 10/09/96  
TIME: 14:59:03

INPUT SET: S13124.raw

100  
101 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
102  
103 TAAACTAAGA TC 12  
104  
105 (2) INFORMATION FOR SEQ ID NO:5:  
106  
107 (i) SEQUENCE CHARACTERISTICS:  
108 (A) LENGTH: 46 base pairs  
109 (B) TYPE: nucleic acid  
110 (C) STRANDEDNESS: single  
111 (D) TOPOLOGY: linear  
112  
113 (ii) MOLECULE TYPE: other nucleic acid  
114  
115  
116  
117  
118 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
119  
120 CTAGAAGGAA GGAATAACAT ATGGTTAACG CGTTGGAATT CGGTAC 46  
121  
122 (2) INFORMATION FOR SEQ ID NO:6:  
123  
124 (i) SEQUENCE CHARACTERISTICS:  
125 (A) LENGTH: 38 base pairs  
126 (B) TYPE: nucleic acid  
127 (C) STRANDEDNESS: single  
128 (D) TOPOLOGY: linear  
129  
130 (ii) MOLECULE TYPE: other nucleic acid  
131  
132  
133  
134  
135 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
136  
137 TTCCTTCCTT ATTGTATACC AATTGCGCAA CCTTAAGC 38  
138  
139 (2) INFORMATION FOR SEQ ID NO:7:  
140  
141 (i) SEQUENCE CHARACTERISTICS:  
142 (A) LENGTH: 12 base pairs  
143 (B) TYPE: nucleic acid  
144 (C) STRANDEDNESS: single  
145 (D) TOPOLOGY: linear  
146  
147 (ii) MOLECULE TYPE: other nucleic acid  
148  
149  
150  
151  
152 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/448,727DATE: 10/09/96  
TIME: 14:59:06

INPUT SET: S13124.raw

153  
154 TATGCGTTCT AC 12  
155  
156 (2) INFORMATION FOR SEQ ID NO:8:  
157  
158 (i) SEQUENCE CHARACTERISTICS:  
159 (A) LENGTH: 14 base pairs  
160 (B) TYPE: nucleic acid  
161 (C) STRANDEDNESS: single  
162 (D) TOPOLOGY: linear  
163  
164 (ii) MOLECULE TYPE: other nucleic acid  
165  
166  
167  
168  
169 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:  
170  
171 ACGCAAGATG AGCC 14  
172  
173 (2) INFORMATION FOR SEQ ID NO:9:  
174  
175 (i) SEQUENCE CHARACTERISTICS:  
176 (A) LENGTH: 24 base pairs  
177 (B) TYPE: nucleic acid  
178 (C) STRANDEDNESS: single  
179 (D) TOPOLOGY: linear  
180  
181 (ii) MOLECULE TYPE: other nucleic acid  
182  
183  
184  
185  
186 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:  
187  
188 TATGGACGAT CCACCTGCTA CCGT 24  
189  
190 (2) INFORMATION FOR SEQ ID NO:10:  
191  
192 (i) SEQUENCE CHARACTERISTICS:  
193 (A) LENGTH: 24 base pairs  
194 (B) TYPE: nucleic acid  
195 (C) STRANDEDNESS: single  
196 (D) TOPOLOGY: linear  
197  
198 (ii) MOLECULE TYPE: other nucleic acid  
199  
200  
201  
202  
203 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  
204  
205 ACCTGCTAGG TGGACGATGG CATA 24

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/448,727DATE: 10/09/96  
TIME: 14:59:08

INPUT SET: S13124.raw

206  
207 (2) INFORMATION FOR SEQ ID NO:11:  
208  
209 (i) SEQUENCE CHARACTERISTICS:  
210 (A) LENGTH: 22 base pairs  
211 (B) TYPE: nucleic acid  
212 (C) STRANDEDNESS: single  
213 (D) TOPOLOGY: linear  
214  
215 (ii) MOLECULE TYPE: other nucleic acid  
216  
217  
218  
219  
220 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:  
221  
222 ATTCCGCTAT GACTCCCGCC CG 22  
223  
224 (2) INFORMATION FOR SEQ ID NO:12:  
225  
226 (i) SEQUENCE CHARACTERISTICS:  
227 (A) LENGTH: 24 base pairs  
228 (B) TYPE: nucleic acid  
229 (C) STRANDEDNESS: single  
230 (D) TOPOLOGY: linear  
231  
232 (ii) MOLECULE TYPE: other nucleic acid  
233  
234  
235  
236  
237 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:  
238  
239 AGGCGATACT GAGGGCGGGC GGCC 24  
240  
241 (2) INFORMATION FOR SEQ ID NO:13:  
242  
243 (i) SEQUENCE CHARACTERISTICS:  
244 (A) LENGTH: 22 base pairs  
245 (B) TYPE: nucleic acid  
246 (C) STRANDEDNESS: single  
247 (D) TOPOLOGY: linear  
248  
249 (ii) MOLECULE TYPE: other nucleic acid  
250  
251  
252  
253  
254 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:  
255  
256 ATACAAGTAT GACTCCCGCC CG 22  
257  
258 (2) INFORMATION FOR SEQ ID NO:14: